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OM protein - protein search, using sw model

Run on: November 30, 2002, 12:35:03 ; Search time 11.5 Seconds
(without alignments)
1286.933 Million cell updates/sec

Title: US-10-025-514-16

Perfect score: 2675

Sequence: 1 MEDPGDAAQKTDTSHDQD.....RDLKCCMCKSCVSPVKA 503

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 262574 seqs, 2942292 residues

Total number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents_AA.*

- 1: /cgn2_6/ptodata/1/1aa/5A_COMB.pep.*
- 2: /cgn2_6/ptodata/1/1aa/5B_COMB.pep.*
- 3: /cgn2_6/ptodata/1/1aa/6A_COMB.pep.*
- 4: /cgn2_6/ptodata/1/1aa/6B_COMB.pep.*
- 5: /cgn2_6/ptodata/1/1aa/PCTUS_COMB.pep.*
- 6: /cgn2_6/ptodata/1/1aa/backfiles1.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	2030	75.9	394	3	US-09-023-339-1
2	2030	75.9	418	1	US-08-121-714-3
3	2030	75.9	418	1	US-08-477-108A-3
4	2030	75.9	418	2	US-08-477-112-3
5	2030	75.9	418	5	PCT-US93-08322-3
6	2024	75.7	394	1	US-08-002-202-6
7	2019	75.5	394	2	US-08-553-488A-1
8	2018	75.4	394	1	US-08-002-202-11
9	2014	75.3	394	3	US-08-481-534-6
10	2013	75.3	394	1	US-08-002-202-9
11	2008	75.1	394	3	US-08-481-534-11
12	2003	74.9	394	3	US-08-481-534-9
13	1988	74.3	414	1	US-08-002-202-17
14	1988	74.3	414	3	US-08-481-534-17
15	1982	74.1	414	1	US-08-002-202-13
16	1982	74.1	414	3	US-08-481-534-13
17	1977	73.9	414	1	US-08-002-202-19
18	1977	73.9	414	3	US-08-481-534-19
19	1392	52.0	308	1	US-07-859-480-2
20	815.5	30.5	405	1	US-07-829-954-2
21	815.5	30.5	405	1	US-07-994-423-2
22	815.5	30.5	405	1	US-08-421-891-2
23	638.5	23.9	132	1	US-08-304-051-21
24	638.5	23.9	132	5	PCT-US95-11445-21
25	635	23.7	107	2	US-07-963-538B-4
26	587	21.9	107	3	US-08-483-503A-4
27	543.5	20.3	436	3	US-08-660-347-2

28	541.5	20.2	444	4	US-09-271-608-8	Sequence 8, Appl1
29	541.5	20.2	444	4	US-09-695-950-8	Sequence 8, Appl1
30	541.5	20.2	444	4	US-09-696-147-8	Sequence 8, Appl1
31	541.5	20.2	444	4	US-09-696-364-8	Sequence 8, Appl1
32	530.5	19.8	390	1	US-08-588-147B-2	Sequence 2, Appl1
33	527.5	19.7	390	4	US-09-266-910-4	Sequence 4, Appl1
34	526.5	19.7	390	4	US-09-266-910-3	Sequence 3, Appl1
35	515.5	19.3	376	1	US-08-464-148-4	Sequence 4, Appl1
36	515.5	19.3	376	1	US-08-385-500-4	Sequence 4, Appl1
37	515.5	19.3	376	1	US-08-846-784-4	Sequence 4, Appl1
38	489.5	18.3	382	1	US-07-768-286B-6	Sequence 4, Appl1
39	489.5	18.3	382	1	US-08-487-823B-3	Sequence 6, Appl1
40	489.5	18.3	382	2	US-08-997-040-3	Sequence 3, Appl1
41	489.5	18.3	382	2	US-09-203-237-3	Sequence 3, Appl1
42	488.5	18.3	376	4	US-09-200-965-2	Sequence 2, Appl1
43	487	18.2	375	1	US-08-121-714-8	Sequence 8, Appl1
44	487	18.2	375	1	US-08-477-108A-8	Sequence 8, Appl1
45	487	18.2	375	2	US-08-477-112-8	Sequence 8, Appl1

ALIGNMENTS

RESULT 1
US-09-023-339-1
; Sequence 1, Application US/09023339
; Patent No. 6127145
; GENERAL INFORMATION:
; APPLICANT: Sutcliff, Thomas D.
; APPLICANT: Rodriguez, Raymond L.
; TITLE OF INVENTION: Production of '1-Antitrypsin
; TITLE OF INVENTION: In Plants
; NUMBER OF SEQUENCES: 22
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Dehlinger & Associates
; STREET: P.O. Box 60850
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94306
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/023,339
; FILING DATE: 13-FEB-1998
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/037,991
; FILING DATE: 13-FEB-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Petithory, Joanne R
; REGISTRATION NUMBER: P42,995
; REFERENCE/DOCKET NUMBER: 0665-0003.30
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-324-0880
; TELEFAX: 650-324-0960
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 394 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; IMMEDIATE SOURCE:
; CLONE: mature AAT amino acid sequence
US-09-023-339-1

Query Match 75.9%; Score 2030; DB 3; Length 394;
Best Local Similarity 100.0%; Pred. No. 6.7e-167;
Matches 394; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Db	1	EDPQGDAAQKTTSDHDDQHPFNKITPNLAEAFSLYQLAHQSNSTNIEFFSPSIATA	60
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Db	61	FAMLSLGTTRADTHDEILEGNFLNLTPEAPQIHEGFQELLRTLNPDSQLQITTTGNGLFL	120
QY	122	SEGLKLVDFLEOVKKLYISEAFTVNFGDTEAAKKQINDYVEKGQGGKIVDLVKELDRDT	181
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QY	182	VFALVNIIFPKGKWRPFVEKDTDEEDFHVDOVTVKVPMMKRLGMFNIOHCKLSSWWL	241
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QY	242	LMKYLGNATAIFFLPDEGKQLHLENELTHDITTKFLENEDRSASLHLPKLSITGYDLK	301
Db	241	LMKYLGNATAIFFLPDEGKQLHLENELTHDITTKFLENEDRSASLHLPKLSITGYDLK	300
QY	302	SVLQGLGITKVFNSGADLSGVTEEAPLKLSKAVHKAVLTIDEKGTAAAGAMFLEAIPMSI	361
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QY	362	PPEVKFNKPFVFLMIEQNTKSPFLFMGVKNPTOK	395
Db	361	PPEVKFNKPFVFLMIEQNTKSPFLFMGVKNPTOK	394

RESULT 2
US-08-121-714-3
; Sequence 3, Application US/08121714
; Patent No. 5470970
; GENERAL INFORMATION:
; APPLICANT: Sager, Ruth
; TITLE OF INVENTION: MASPIN, A NOVEL SERPIN WITH
; TUMOR SUPPRESSING ACTIVITY
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson
; STREET: 225 Franklin Street
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: U.S.A.
; ZIP: 02110-2804
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; COMPUTER: IBM PS/2 Model 50z or 55SX
; OPERATING SYSTEM: MS-DOS (Version 5.0)
; SOFTWARE: Wordperfect (Version 5.1)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/121,714
; FILING DATE:
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/938,823
; FILING DATE: 09/01/92
; APPLICATION NUMBER: 07/844,296
; FILING DATE: 02/28/92
; APPLICATION NUMBER: 07/662,216
; FILING DATE: 02/28/91
; ATTORNEY/AGENT INFORMATION:
; NAME: Fraser, Janis K.
; REGISTRATION NUMBER: 34,819
; REFERENCE/DOCKET NUMBER: 00530/072001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 542-5070
; TELEFAX: (617) 542-8906
; TELEX: 200154
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 418
; TYPE: amino acid
; STRANDEDNESS:

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; TOPOLOGY: linear
US-08-121-714-3

Query Match          75.9%; Score 2030; DB 1; Length 418;
Best Local Similarity 100.0%; Pred. No. 7.3e-167; Indels 0; Gaps
Matches 394; Conservative 0; Mismatches 0;

QY 2 EDPOGDAACKTDTSHHDQDHPTFNKITPNLAEFAFSLYRQLAHQSNSTNIFPSPYSIATA 61
   |||||
Db 25 EDPOGDAACKTDTSHHDQDHPTFNKITPNLAEFAFSLYRQLAHQSNSTNIFPSPYSIATA 84
   |||||
QY 62 FAMLISGTTADHDEILEGINFNLTPEIPAOIHGFGOELLRTLNQDPSOLOQTITNGGLFL 121
   |||||
Db 85 FAMLISGTTADHDEILEGINFNLTPEIPAOIHGFGOELLRTLNQDPSOLOQTITNGGLFL 144
   |||||
QY 122 SEGKLWDKFELEVDVKLYHSEAFVTFNGDTEBAKQINDYVBKGTOGKIYDLVKELDRDT 181
   |||||
Db 145 SEGKLWDKFELEVDVKLYHSEAFVTFNGDTEBAKQINDYVBKGTOGKIYDLVKELDRDT 204
   |||||
QY 182 VFALVNIYIFPGKWERPEFKVQDTEEDFHVDOVTTVKVPMMKRLGMFNIOHCKKLSSWWL 241
   |||||
Db 205 VFALVNIYIFPGKWERPEFKVQDTEEDFHVDOVTTVKVPMMKRLGMFNIOHCKKLSSWWL 264
   |||||
QY 242 LMKYLGNATAIFFLPDGBKQLHLENELTHDITTKFLENEDRRSASLHLPKLSITGTGYDLK 301
   |||||
Db 265 LMKYLGNATAIFFLPDGBKQLHLENELTHDITTKFLENEDRRSASLHLPKLSITGTGYDLK 324
   |||||
QY 302 SVLGOLGITKVFESNGADLSGVTEAPLKLKSKAVHKAVLTIDEXGTEAAGAMFLEAIPMSI 361
   |||||
Db 325 SVLGOLGITKVFESNGADLSGVTEAPLKLKSKAVHKAVLTIDEXGTEAAGAMFLEAIPMSI 384
   |||||
QY 362 PPEVKFNKPFVFLMIEQNTKSPFLFMGKVVNPTOK 395
   |||||
Db 385 PPEVKFNKPFVFLMIEQNTKSPFLFMGKVVNPTOK 418
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1  RESULT 3
2  US-08-477-108A-3
3  ; Sequence 3, Application US/08477108A
4  ; Patent No. 5801001
5  ; GENERAL INFORMATION:
6  ; APPLICANT: Sager, Ruth
7  ; APPLICANT: Zou, Zhiqiang
8  ; APPLICANT: Anisowicz, Anthony
9  ; TITLE OF INVENTION: MASPIN, A NOVEL SERPIN WITH
10 ; TITLE OF INVENTION: TUMOR SUPPRESSING ACTIVITY
11 ; NUMBER OF SEQUENCES: 11
12 ; CORRESPONDENCE ADDRESS:
13 ; ADDRESSEE: Fish & Richardson P.C.
14 ; STREET: 225 Franklin Street
15 ; CITY: Boston
16 ; STATE: Massachusetts
17 ; COUNTRY: U.S.A.
18 ; ZIP: 02110-2804
19 ; COMPUTER READABLE FORM:
20 ; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
21 ; COMPUTER: IBM PS/2 Model 502 or 595X
22 ; OPERATING SYSTEM: MS-DOS (Version 5.0)
23 ; SOFTWARE: Wordperfect (Version 5.1)
24 ; CURRENT APPLICATION DATA:
25 ; APPLICATION NUMBER: US/08/477,108A
26 ; FILING DATE: June 7, 1995
27 ; CLASSIFICATION: 536
28 ; PRIOR APPLICATION DATA:
29 ; APPLICATION NUMBER: 08/121,714
30 ; FILING DATE: 09/01/93
31 ; APPLICATION NUMBER: 07/938,823
32 ; FILING DATE: 09/01/92
33 ; APPLICATION NUMBER: 07/844,296
34 ; FILING DATE: 02/28/92
35 ; APPLICATION NUMBER: 07/662,216
36 ; FILING DATE: 02/28/91
37 ; ATTORNEY/AGENT INFORMATION:

```

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; NAME: Fraser, Janis K.
; REGISTRATION NUMBER: 34,819
; REFERENCE/DOCKET NUMBER: 06570/002002
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 542-8906
; TELEFAX: (617) 542-8906
; TELEX: 200154
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 418
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; US-08-477-108A-3

Query Match 75.9%; Score 2030; DB 1; Length 418;
Best Local Similarity 100.0%; Pred. No. 7.3e-167;
Matches 394; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 EDPOGDAQKTDTSHHDDHPTFNKITPNLAFAFSLYROLAHQSNSTNIFSPVSIATA 61
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DB 265 LMKYLGNTAIFFLPDEGKLOHLENELTHDITKFELENEDRRSASLHLPKLSITGYDLK 324
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DB 325 SVLGOLGITKVFSGNADLSGVTEAPLKLKSAVHKAVALTIDEKGTAAAGAMFLEAIPMSI 384
QY 362 PPEVKFNKPFVFLMIEQNTKSPFLFMGKVVNPTQK 395
DB 385 PPEVKFNKPFVFLMIEQNTKSPFLFMGKVVNPTQK 418

RESULT 4
US-08-477-112-3
; Sequence 3, Application US/08477112
; Patent No. 5905023
; GENERAL INFORMATION:
; APPLICANT: Sager, Ruth
; TITLE OF INVENTION: MASPIN, A NOVEL SERPIN WITH
; TUMOR SUPPRESSING ACTIVITY
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson P.C.
; STREET: 225 Franklin Street
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: U.S.A.
; ZIP: 02110-2804
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; COMPUTER: IBM PS/2 Model 502 or 55SX
; OPERATING SYSTEM: MS-DOS (Version 5.0)
; SOFTWARE: WordPerfect (Version 5.1)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/477,112
; FILING DATE:
; CLASSIFICATION: 536
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; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/121,714
; FILING DATE: 09/01/93
; APPLICATION NUMBER: 07/938,823
; FILING DATE: 09/01/92
; APPLICATION NUMBER: 07/844,296
; FILING DATE: 02/28/92
; APPLICATION NUMBER: 07/662,216
; FILING DATE: 02/28/91
; ATTORNEY/AGENT INFORMATION:
; NAME: Fraser, Janis K.
; REGISTRATION NUMBER: 34,819
; REFERENCE/DOCKET NUMBER: 06570/002003
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 542-8906
; TELEFAX: (617) 542-8906
; TELEX: 200154
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 418
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; US-08-477-112-3

Query Match 75.9%; Score 2030; DB 2; Length 418;
Best Local Similarity 100.0%; Pred. No. 7.3e-167;
Matches 394; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 25 EDPOGDAQKTDTSHHDDHPTFNKITPNLAFAFSLYROLAHQSNSTNIFSPVSIATA 84
QY 62 FAMLSTGKADTHDEILEGLNENLTPTEPAQIHEGFOELLRTLNQPSQLQTLTNGLFL 121
DB 85 FAMLSTGKADTHDEILEGLNENLTPTEPAQIHEGFOELLRTLNQPSQLQTLTNGLFL 144
QY 122 SEGKLVDFKLEDDVKLYHSEAFVNFQDTEPAKKQINDYVEKGTQGIIVDLVKELDRDT 181
DB 145 SEGKLVDFKLEDDVKLYHSEAFVNFQDTEPAKKQINDYVEKGTQGIIVDLVKELDRDT 204
QY 182 VFALVNYIFFKGKWERPEVKDTEEDFHVQDQVTVKVPMMKRLGMENIQHCKKLSWVL 241
DB 205 VFALVNYIFFKGKWERPEVKDTEEDFHVQDQVTVKVPMMKRLGMENIQHCKKLSWVL 264
QY 242 LMKYLGNTAIFFLPDEGKLOHLENELTHDITKFELENEDRRSASLHLPKLSITGYDLK 301
DB 265 LMKYLGNTAIFFLPDEGKLOHLENELTHDITKFELENEDRRSASLHLPKLSITGYDLK 324
QY 302 SVLGOLGITKVFSGNADLSGVTEAPLKLKSAVHKAVALTIDEKGTAAAGAMFLEAIPMSI 361
DB 325 SVLGOLGITKVFSGNADLSGVTEAPLKLKSAVHKAVALTIDEKGTAAAGAMFLEAIPMSI 384
QY 362 PPEVKFNKPFVFLMIEQNTKSPFLFMGKVVNPTQK 395
DB 385 PPEVKFNKPFVFLMIEQNTKSPFLFMGKVVNPTQK 418

RESULT 5
PCT-US93-08322-3
; Sequence 3, Application PC/TUS9308322
; GENERAL INFORMATION:
; APPLICANT: Sager, Ruth
; TITLE OF INVENTION: MASPIN, A NOVEL SERPIN WITH TUMOR SUPPRESSING ACTIVITY
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson
; STREET: 225 Franklin Street
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: U.S.A.
; ZIP: 02110-2804
; COMPUTER READABLE FORM:
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MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
COMPUTER: IBM PS/2 Model 502 or 55SX
OPERATING SYSTEM: MS-DOS (Version 5.0)
SOFTWARE: WordPerfect (Version 5.1)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US93/08322
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/938,823
FILING DATE: 09/01/92
APPLICATION NUMBER: 07/844,296
FILING DATE: 02/28/92
APPLICATION NUMBER: 07/662,216
FILING DATE: 02/28/91
ATTORNEY/AGENT INFORMATION:
NAME: Fraser, Janis K.
REGISTRATION NUMBER: 34,819
REFERENCE/DOCKET NUMBER: 00530/072001
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 542-5070
TELEFAX: (617) 542-8906
TELEX: 200154
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 418
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
PCT-US93-08322-3

Query Match 75.9%; Score 2030; DB 5; Length 418;
Best Local Similarity 100.0%; Pred. No. 7.3e-167;
Matches 394; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 EDPOGDAQAQKTDTSHHDDHPTFNKTPNLAFAFSLYRQLAHQSNTNIFPSPVSIATA 61
DB 25 EDPOGDAQAQKTDTSHHDDHPTFNKTPNLAFAFSLYRQLAHQSNTNIFPSPVSIATA 84
QY 62 FAMLISGKTADTHDEILGLNFNLTPEAQIHEGFQELLRLNQPDSQLQTTGNGLFL 121
DB 85 FAMLISGKTADTHDEILGLNFNLTPEAQIHEGFQELLRLNQPDSQLQTTGNGLFL 144
QY 122 SEGKLVDKFLDVKLYHSEAFVNFQDTEEDFHVDTTQVKVPMKRLGMFNIQHCCKLSSWVL 181
DB 145 SEGKLVDKFLDVKLYHSEAFVNFQDTEEDFHVDTTQVKVPMKRLGMFNIQHCCKLSSWVL 204
QY 182 VFALVNYIFFKGKWERPFVKDTEEDFHVDTTQVKVPMKRLGMFNIQHCCKLSSWVL 241
DB 205 VFALVNYIFFKGKWERPFVKDTEEDFHVDTTQVKVPMKRLGMFNIQHCCKLSSWVL 264
QY 242 LMKYLGNTAIFFLPDGKLOHLENLTHDITTKFLENEDRRSASLHLPKLSITGTIDLK 301
DB 265 LMKYLGNTAIFFLPDGKLOHLENLTHDITTKFLENEDRRSASLHLPKLSITGTIDLK 324
QY 302 SVLGOLGITKVFNSGADLSGVTEEAAPLKSXAVHKAVLTIDEKTEAAGAMFLEAIPMSI 361
DB 325 SVLGOLGITKVFNSGADLSGVTEEAAPLKSXAVHKAVLTIDEKTEAAGAMFLEAIPMSI 384
QY 362 PPEVKFNKPFVFLMTEQNTKSPLEFMGKVVNPTOK 395
DB 385 PPEVKFNKPFVFLMTEQNTKSPLEFMGKVVNPTOK 418

RESULT 6

US-08-002-202-6
Sequence 6, Application US/08002202
Patent No. 5604201
GENERAL INFORMATION:
APPLICANT: Thomas, Garry
APPLICANT: Anderson, Eric D
APPLICANT: Thomas, Laurel
APPLICANT: Hayflick, Joel S

TITLE OF INVENTION: Methods and Reagents for Inhibiting
TITLE OF INVENTION: Furin Endoprotease
NUMBER OF SEQUENCES: 21
CORRESPONDENCE ADDRESS:
ADDRESSEE: Allegretti and Witcoff, Ltd.
STREET: 10 South Wacker Drive, Suite 3000
CITY: Chicago
STATE: Illinois
COUNTRY: USA
ZIP: 60606
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/002,202
FILING DATE: 08-JAN-1993
CLASSIFICATION: 514
ATTORNEY/AGENT INFORMATION:
NAME: No. 5604201ban, Kevin E
REGISTRATION NUMBER: 35,30003
REFERENCE/DOCKET NUMBER: 92,448
TELECOMMUNICATION INFORMATION:
TELEPHONE: 312-715-1000
TELEFAX: 312-715-1234
TELEX: 910-221-5317
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 394 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-002-202-6

Query Match 75.7%; Score 2024; DB 1; Length 394;
Best Local Similarity 99.5%; Pred. No. 2.2e-166;
Matches 392; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 2 EDPOGDAQAQKTDTSHHDDHPTFNKTPNLAFAFSLYRQLAHQSNTNIFPSPVSIATA 61
DB 1 EDPOGDAQAQKTDTSHHDDHPTFNKTPNLAFAFSLYRQLAHQSNTNIFPSPVSIATA 60
QY 62 FAMLISGKTADTHDEILGLNFNLTPEAQIHEGFQELLRLNQPDSQLQTTGNGLFL 121
DB 61 FAMLISGKTADTHDEILGLNFNLTPEAQIHEGFQELLRLNQPDSQLQTTGNGLFL 120
QY 122 SEGKLVDKFLDVKLYHSEAFVNFQDTEEDFHVDTTQVKVPMKRLGMFNIQHCCKLSSWVL 181
DB 121 SEGKLVDKFLDVKLYHSEAFVNFQDTEEDFHVDTTQVKVPMKRLGMFNIQHCCKLSSWVL 180
QY 182 VFALVNYIFFKGKWERPFVKDTEEDFHVDTTQVKVPMKRLGMFNIQHCCKLSSWVL 241
DB 181 VFALVNYIFFKGKWERPFVKDTEEDFHVDTTQVKVPMKRLGMFNIQHCCKLSSWVL 240
QY 242 LMKYLGNTAIFFLPDGKLOHLENLTHDITTKFLENEDRRSASLHLPKLSITGTIDLK 301
DB 241 LMKYLGNTAIFFLPDGKLOHLENLTHDITTKFLENEDRRSASLHLPKLSITGTIDLK 300
QY 302 SVLGOLGITKVFNSGADLSGVTEEAAPLKSXAVHKAVLTIDEKTEAAGAMFLEAIPMSI 361
DB 301 SVLGOLGITKVFNSGADLSGVTEEAAPLKSXAVHKAVLTIDEKTEAAGAMFLEAIPMSI 360
QY 362 PPEVKFNKPFVFLMTEQNTKSPLEFMGKVVNPTOK 395
DB 361 PPEVKFNKPFVFLMTEQNTKSPLEFMGKVVNPTOK 394

RESULT 7

US-08-553-488A-1
Sequence 1, Application US/08553488A
Patent No. 5817484
GENERAL INFORMATION:

APPLICANT: YU, Myeong-Hee
 APPLICANT: KWON, Ki-Sun
 APPLICANT: LEE, Kee-Nyung
 APPLICANT: SHIN, Hwa-Soo
 TITLE OF INVENTION: THERMORESISTANT ALPHA-1-ANTITRYPSIN
 TITLE OF INVENTION: MUTEIN
 NUMBER OF SEQUENCES: 6
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: YU, Myeong-Hee
 STREET: 3-1003, Hankang Apartment, 49-8, Jamwon-dong,
 STREET: Seocho-gu
 CITY: Seoul
 STATE: Seoul
 COUNTRY: Republic of Korea
 ZIP: 137-030
 ADDRESSEE: KWON, Ki-Sun
 STREET: 130-1306, Hanbit Apartment, Oun-dong,
 STREET: Yuseong-gu
 CITY: Taejeon
 STATE: Taejeon
 COUNTRY: Republic of Korea
 ZIP: 305-333
 ADDRESSEE: LEE, Kee-Nyung
 STREET: 105-1004, Hanbit Apartment, Oun-dong,
 STREET: Yuseong-gu
 CITY: Taejeon
 STATE: Taejeon
 COUNTRY: Republic of Korea
 ZIP: 300-200
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Diskette, 3.5inch, 1.44MB storage
 COMPUTER: IBM PC/AT
 OPERATING SYSTEM: MS-DOS
 SOFTWARE: Word Perfect 5.1
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: KR 93-8510
 FILING DATE: 18-MAY-1993
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US/08/553,488A
 FILING DATE: 20-NOV-1995
 ATTORNEY/AGENT INFORMATION:
 NAME:
 REGISTRATION NUMBER:
 REFERENCE/DOCKET NUMBER:
 TELECOMMUNICATION INFORMATION:
 TELEPHONE:
 TELEFAX:
 INFORMATION FOR SEQ ID NO: 1:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 394 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 FEATURE:
 OTHER INFORMATION: wild type human '-1-antitrypsin
 US-08-553-488A-1

Query Match 75.5%; Score 2019; DB 2; Length 394;
 Best Local Similarity 99.2%; Pred. No. 5.9e-166;
 Matches 391; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
 Qy 2 EDPOGDAQAQKTDTSHHDDHPTNKIPNLAFAFSLYROLAHQSNSTNFFSPVSIATA 61
 Db 1 EDPOGDAQAQKTDTSHHDDHPTNKIPNLAFAFSLYROLAHQSNSTNFFSPVSIATA 60

QY 62 FAMLSTGKADTHDEILEGLNENLFEPAQIHEGFQELLRTLNQPSQLQTLTNGGLFL 121
 Db 61 FAMLSTGKADTHDEILEGLNENLFEPAQIHEGFQELLRTLNQPSQLQTLTNGGLFL 120
 QY 122 SEGKLVDKFLBEDVKKLYHSEAFVNFVGTDEEAKKQINDYVEKGTQGIKVDLVKELDRDT 181
 Db 121 SEGKLVDKFLBEDVKKLYHSEAFVNFVGTDEEAKKQINDYVEKGTQGIKVDLVKELDRDT 180
 QY 182 VFALVNYIFFKCKWERPPFVKDTEEDFHVQDVTTKVPMKRLGMFNTOHCKKLSSWVL 241
 Db 181 VFALVNYIFFKCKWERPPFVKDTEEDFHVQDVTTKVPMKRLGMFNTOHCKKLSSWVL 240
 QY 242 LMKYLGNAITAFPLPDEGKLQHLNELTHDIIITKFLNEDRRSASLHLPKLSITCTYDLK 301
 Db 241 LMKYLGNAITAFPLPDEGKLQHLNELTHDIIITKFLNEDRRSASLHLPKLSITCTYDLK 300
 QY 302 SVLGQGITKVFNSGADLSGVTEAPLKLKSAVKAVLTIIDEKGTAAAGAMFLEAIPMSI 361
 Db 301 SVLGQGITKVFNSGADLSGVTEAPLKLKSAVKAVLTIIDEKGTAAAGAMFLEAIPMSI 360
 QY 362 PPEVKENKPFVFLMTEONTKSPLEFMKGVVNPTQK 395
 Db 361 PPEVKENKPFVFLMIDQNTKSPLEFMKGVVNPTQK 394
 RESULT 8
 US-08-002-202-11
 ; Sequence 11, Application US/08002202
 ; Patent No. 5604201
 ; GENERAL INFORMATION:
 ; APPLICANT: Thomas, Garry
 ; APPLICANT: Anderson, Eric D
 ; APPLICANT: Thomas, Laurel
 ; APPLICANT: Hayflick, Joel S
 ; TITLE OF INVENTION: Methods and Reagents for Inhibiting
 ; TITLE OF INVENTION: Furin Endoprotease
 ; NUMBER OF SEQUENCES: 21
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Allegretti and Witcoff, Ltd.
 ; STREET: 10 South Wacker Drive, Suite 3000
 ; CITY: Chicago
 ; STATE: Illinois
 ; COUNTRY: USA
 ; ZIP: 60606
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: PatentIn Release #1.0, Version #1.25
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/002,202
 ; FILING DATE: 08-JAN-1993
 ; CLASSIFICATION: 514
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: No. 5604201nan, Kevin E
 ; REGISTRATION NUMBER: 35,30003
 ; REFERENCE/DOCKET NUMBER: 92,448
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: 312-715-1000
 ; TELEFAX: 312-715-1234
 ; TELEX: 910-221-5317
 ; INFORMATION FOR SEQ ID NO: 11:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 394 amino acids
 ; TYPE: amino acid
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: protein
 ; FEATURE:
 ; NAME/KEY: Protein
 ; LOCATION: 1..394
 ; OTHER INFORMATION: /label= Variants
 ; OTHER INFORMATION: /note= "This amino acid sequence is the amino acid
 ; OTHER INFORMATION: sequence of the modified alpha-1-antitrypsin

; OTHER INFORMATION: variant, alpha-1-antitrypsin Pittsburgh "
US-08-002-202-11

Query Match 75.4%; Score 2018; DB 1; Length 394;
Best Local Similarity 99.2%; Pred. No. 7.2e-166;
Matches 391; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 2 EDPOGDAAKTDTSHHDQDHPFNKIPNLAFAFSLYRLAHQSNSTNIFFSPVSIATA 61
DB 1 EDPOGDAAKTDTSHHDQDHPFNKIPNLAFAFSLYRLAHQSNSTNIFFSPVSIATA 60
QY 62 FAMLISLGTAKADTHEILEGLNFNLTEIPPAQIHGEGFQELLRTLNQPSQLQTTGNGFL 121
DB 61 FAMLISLGTAKADTHEILEGLNFNLTEIPPAQIHGEGFQELLRTLNQPSQLQTTGNGFL 120
QY 122 SEGKLVDKFLVDVKLYHSEAFVNFQDTEEAQKQINDYVEKGTQKIVDLVKELDRDT 181
DB 121 SQGLKLVDFLEDVKLYHSEAFVNFQDTEEAQKQINDYVEKGTQKIVDLVKELDRDT 180
QY 182 VFALVNYIFFKQWERPFVYKDTTEEDFHVQDQVTVKVPMMKRLGMFNTHQCKKLSWVL 241
DB 181 VFALVNYIFFKQWERPFVYKDTTEEDFHVQDQVTVKVPMMKRLGMFNTHQCKKLSWVL 240
QY 242 LMKYLGNTAIFPLPDEGKLOHLENELTHDITTKFLENEDRRSASLHLPKLSITGTYDLK 301
DB 241 LMKYLGNTAIFPLPDEGKLOHLENELTHDITTKFLENEDRRSASLHLPKLSITGTYDLK 300
QY 302 SVLGQGITKVFVNSGADLSGVTEAPLKSKAVHKAVLTIDEKTEAAGAMFLEAIPMSI 361
DB 301 SVLGQGITKVFVNSGADLSGVTEAPLKSKAVHKAVLTIDEKTEAAGAMFLEAIPMSI 360
QY 362 PPEVKFNKPFVFLMIEQNTKSPFLMGKVVNPQTQK 395
DB 361 PPEVKFNKPFVFLMIEQNTKSPFLMGKVVNPQTQK 394

RESULT 9

US-08-481-534-6
; Sequence 6, Application US/08481534
; Patent No. 6022855
; GENERAL INFORMATION:
; APPLICANT: Thomas, Gary
; APPLICANT: Anderson, Eric D
; APPLICANT: Thomas, Laurel
; APPLICANT: Hayflick, Joel S
; APPLICANT: Nelson, Jay
; APPLICANT: Stenglen, Stephan G
; TITLE OF INVENTION: Methods and Reagents for Inhibiting Furin
; NUMBER OF SEQUENCES: 21
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: McDonnell Boehnen Hulbert & Berghoff
; STREET: 300 South Wacker Drive
; CITY: Chicago
; STATE: IL
; COUNTRY: USA
; ZIP: 60606
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/481.534
; FILING DATE: 14-SEP-1995
; CLASSIFICATION: 530
; ATTORNEY/AGENT INFORMATION:
; NAME: No. 6022855nan, Kevin E
; REGISTRATION NUMBER: 35,303
; REFERENCE/DOCKET NUMBER: 92,448-D
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312-913-0001
; TELEFAX: 312-913-0002

; TELEX:
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 394 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-481-534-6

Query Match 75.3%; Score 2014; DB 3; Length 394;
Best Local Similarity 99.0%; Pred. No. 1.6e-165;
Matches 390; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 2 EDPOGDAAKTDTSHHDQDHPFNKIPNLAFAFSLYRLAHQSNSTNIFFSPVSIATA 61
DB 1 EDPOGDAAKTDTSHHDQDHPFNKIPNLAFAFSLYRLAHQSNSTNIFFSPVSIATA 60
QY 62 FAMLISLGTAKADTHEILEGLNFNLTEIPPAQIHGEGFQELLRTLNQPSQLQTTGNGFL 121
DB 61 FAMLISLGTAKADTHEILEGLNFNLTEIPPAQIHGEGFQELLRTLNQPSQLQTTGNGFL 120
QY 122 SEGKLVDKFLVDVKLYHSEAFVNFQDTEEAQKQINDYVEKGTQKIVDLVKELDRDT 181
DB 121 SQGLKLVDFLEDVKLYHSEAFVNFQDTEEAQKQINDYVEKGTQKIVDLVKELDRDT 180
QY 182 VFALVNYIFFKQWERPFVYKDTTEEDFHVQDQVTVKVPMMKRLGMFNTHQCKKLSWVL 241
DB 181 VFALVNYIFFKQWERPFVYKDTTEEDFHVQDQVTVKVPMMKRLGMFNTHQCKKLSWVL 240
QY 242 LMKYLGNTAIFPLPDEGKLOHLENELTHDITTKFLENEDRRSASLHLPKLSITGTYDLK 301
DB 241 LMKYLGNTAIFPLPDEGKLOHLENELTHDITTKFLENEDRRSASLHLPKLSITGTYDLK 300
QY 302 SVLGQGITKVFVNSGADLSGVTEAPLKSKAVHKAVLTIDEKTEAAGAMFLEAIPMSI 361
DB 301 SVLGQGITKVFVNSGADLSGVTEAPLKSKAVHKAVLTIDEKTEAAGAMFLEAIPMSI 360
QY 362 PPEVKFNKPFVFLMIEQNTKSPFLMGKVVNPQTQK 395
DB 361 PPEVKFNKPFVFLMIEQNTKSPFLMGKVVNPQTQK 394

RESULT 10

US-08-002-202-9
; Sequence 9, Application US/08002202
; Patent No. 5604201
; GENERAL INFORMATION:
; APPLICANT: Thomas, Gary
; APPLICANT: Anderson, Eric D
; APPLICANT: Thomas, Laurel
; APPLICANT: Hayflick, Joel S
; TITLE OF INVENTION: Methods and Reagents for Inhibiting
; TITLE OF INVENTION: Furin Endoprotease
; NUMBER OF SEQUENCES: 21
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Allegretti and Witcoff, Ltd.
; STREET: 10 South Wacker Drive, Suite 3000
; CITY: Chicago
; STATE: Illinois
; COUNTRY: USA
; ZIP: 60606
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/002.202
; FILING DATE: 08-JAN-1993
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: No. 5604201nan, Kevin E
; REGISTRATION NUMBER: 35,30003

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; REFERENCE/DOCKET NUMBER: 92.448
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312-715-1000
; TELEFAX: 312-715-1234
; TELEX: 910-221-5317
; INFORMATION FOR SEQ ID NO: 9:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 394 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; FEATURE:
; NAME/KEY: Protein
; LOCATION: 1..394
; OTHER INFORMATION: /label= Variant
; OTHER INFORMATION: /note= "this amino acid sequence is the amino acid
; sequence of the modified alpha-1-antitrypsin
; OTHER INFORMATION: protein, alpha-1-antitrypsin Portland;"
US-08-002-202-9

Query Match 75.3%; Score 2013; DB 1; Length 394;
Best Local Similarity 99.0%; Pred. No. 1.9e-165;
Matches 390; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 2 EDQGDAAQKTDTSHHDDHPTFNKITPNLAFAFSLYRQLAHQSNSTNIFSPVSIATA 61
DB 1 EDQGDAAQKTDTSHHDDHPTFNKITPNLAFAFSLYRQLAHQSNSTNIFSPVSIATA 60

QY 62 FAMLSTGKTADTHDEILEGLNFNLTPEPAQIHEGFQELLRTLNQPSQLQLTGTGNGLFL 121
DB 61 FAMLSTGKTADTHDEILEGLNFNLTPEPAQIHEGFQELLRTLNQPSQLQLTGTGNGLFL 120

QY 122 SEGKLVDKFLVDKVKLYHSEAFVNFQDTEEAQKQINDYVEKGTQKIVDLVKELDROT 181
DB 121 SQGLKLVDFLEDVKKLYHSEAFVNFQDTEEAQKQINDYVEKGTQKIVDLVKELDROT 180

QY 182 VFALVNYIFFKQKWERPFVKDTEEDFHVQDQVTTVKVPMKRLGMFNIOHCKKLSSWVL 241
DB 181 VFALVNYIFFKQKWERPFVKDTEEDFHVQDQVTTVKVPMKRLGMFNIOHCKKLSSWVL 240

QY 242 LMKYLGNTAIFFLPDEGKLQHLNLTHTDITKFLNEDRRSASLHLPKLSITGTGNDLK 301
DB 241 LMKYLGNTAIFFLPDEGKLQHLNLTHTDITKFLNEDRRSASLHLPKLSITGTGNDLK 300

QY 302 SVLGQGITKVFSGADLSGVTEEAAPLKSKAVHKAVLTIDEKGTAAAGAMFLAIPMSI 361
DB 301 SVLGQGITKVFSGADLSGVTEEAAPLKSKAVHKAVLTIDEKGTAAAGAMFLAIPMSI 360

QY 362 PPEVKFNKPFVFLMIEQNTKSPFLFMGKVVNPTOK 395
DB 361 PPEVKFNKPFVFLMIEQNTKSPFLFMGKVVNPTOK 394
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RESULT 11
US-08-481-534-11
; Sequence 11, Application US/08481534
; Patent No. 6022855
; GENERAL INFORMATION:
; APPLICANT: Thomas, Gary
; APPLICANT: Anderson, Eric D
; APPLICANT: Thomas, Laurel
; APPLICANT: Haylick, Joel S
; APPLICANT: Nelson, Jay
; APPLICANT: Stanglen, Stephan G
; TITLE OF INVENTION: Methods and Reagents for Inhibiting Furin
; NUMBER OF SEQUENCES: 21
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: McDonnell Boehnen Hulbert & Berghoff
; STREET: 300 South Wacker Drive
; CITY: Chicago
; STATE: IL
; COUNTRY: USA
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; ZIP: 60606
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/481,534
; FILING DATE: 14-SEP-1995
; CLASSIFICATION: 530
; ATTORNEY/AGENT INFORMATION:
; NAME: No. 6022855nan, Kevin E
; REGISTRATION NUMBER: 35,303
; REFERENCE/DOCKET NUMBER: 92,448-D
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312-913-0001
; TELEFAX: 312-913-0002
; TELEX:
; INFORMATION FOR SEQ ID NO: 11:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 394 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; FEATURE:
; NAME/KEY: Modified site
; LOCATION: 355..358
; OTHER INFORMATION: /label=Variant
; OTHER INFORMATION: /note= "The amino acid sequence is the amino acid
; sequence of the modified alpha-1-antitrypsin
; OTHER INFORMATION: protein, alpha-1-antitrypsin Pittsburgh."
US-08-481-534-11

Query Match 75.1%; Score 2008; DB 3; Length 394;
Best Local Similarity 98.7%; Pred. No. 5.2e-165;
Matches 389; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 2 EDQGDAAQKTDTSHHDDHPTFNKITPNLAFAFSLYRQLAHQSNSTNIFSPVSIATA 61
DB 1 EDQGDAAQKTDTSHHDDHPTFNKITPNLAFAFSLYRQLAHQSNSTNIFSPVSIATA 60

QY 62 FAMLSTGKTADTHDEILEGLNFNLTPEPAQIHEGFQELLRTLNQPSQLQLTGTGNGLFL 121
DB 61 FAMLSTGKTADTHDEILEGLNFNLTPEPAQIHEGFQELLRTLNQPSQLQLTGTGNGLFL 120

QY 122 SEGKLVDKFLVDKVKLYHSEAFVNFQDTEEAQKQINDYVEKGTQKIVDLVKELDROT 181
DB 121 SQGLKLVDFLEDVKKLYHSEAFVNFQDTEEAQKQINDYVEKGTQKIVDLVKELDROT 180

QY 182 VFALVNYIFFKQKWERPFVKDTEEDFHVQDQVTTVKVPMKRLGMFNIOHCKKLSSWVL 241
DB 181 VFALVNYIFFKQKWERPFVKDTEEDFHVQDQVTTVKVPMKRLGMFNIOHCKKLSSWVL 240

QY 242 LMKYLGNTAIFFLPDEGKLQHLNLTHTDITKFLNEDRRSASLHLPKLSITGTGNDLK 301
DB 241 LMKYLGNTAIFFLPDEGKLQHLNLTHTDITKFLNEDRRSASLHLPKLSITGTGNDLK 300

QY 302 SVLGQGITKVFSGADLSGVTEEAAPLKSKAVHKAVLTIDEKGTAAAGAMFLAIPMSI 361
DB 301 SVLGQGITKVFSGADLSGVTEEAAPLKSKAVHKAVLTIDEKGTAAAGAMFLAIPMSI 360

QY 362 PPEVKFNKPFVFLMIEQNTKSPFLFMGKVVNPTOK 395
DB 361 PPEVKFNKPFVFLMIEQNTKSPFLFMGKVVNPTOK 394
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RESULT 12
US-08-481-534-9
; Sequence 9, Application US/08481534
; Patent No. 6022855
; GENERAL INFORMATION:
; APPLICANT: Thomas, Gary
; APPLICANT: Anderson, Eric D
```

APPLICANT: Thomas, Laurel
APPLICANT: Haylick, Joel S
APPLICANT: Nelson, Jay
APPLICANT: Stenglen, Stephan G
TITLE OF INVENTION: Methods and Reagents for Inhibiting Furin
NUMBER OF SEQUENCES: 21
CORRESPONDENCE ADDRESS:
ADDRESSEE: McDonnell Boenhen Hulbert & Berghoff
STREET: 300 South Wacker Drive
CITY: Chicago
STATE: IL
COUNTRY: USA
ZIP: 60606
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
FILING DATE: 14-SEP-1995
APPLICATION NUMBER: US/08/481.534
CLASSIFICATION: 530
ATTORNEY/AGENT INFORMATION:
NAME: No. 6022855nan, Kevin E
REGISTRATION NUMBER: 35,303
REFERENCE/DOCKET NUMBER: 92,448-D
TELECOMMUNICATION INFORMATION:
TELEPHONE: 312-913-0001
TELEFAX: 312-913-0002
TELEX:
INFORMATION FOR SEQ ID NO: 9:
SEQUENCE CHARACTERISTICS:
LENGTH: 394 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
FEATURE:
NAME/KEY: Modified site
LOCATION: 355..358
OTHER INFORMATION: /label=Variant
OTHER INFORMATION: /note="The amino acid sequence is the amino acid
sequence of the modified alpha-1-antitrypsin
protein, alpha-1-antitrypsin Portland.""
US-08-481-534-9

Query Match 74.9%; Score 2003; DB 3; Length 394;
Best Local Similarity 98.5%; Pred. No. 1.4e-164;
Matches 388; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

QY	2	EDPGDAAQKTDTS	SHDQDHP	TNFKIT	PNLA	EF	AFSL	YRQL	AHQSN	STN	IFFSP	SVSI	ATA	61
DB	1	EDPGDAAQKTDTS	SHDQDHP	TNFKIT	PNLA	EF	AFSL	YRQL	AHQSN	STN	IFFSP	SVSI	ATA	60
QY	62	FAMLSL	GT	KAD	TH	DE	IL	EG	NF	LN	TE	IP	EAQ	I
DB	61	FAMLSL	GT	KAD	TH	DE	IL	EG	NF	LN	TE	IP	EAQ	I
QY	122	SEGL	KLV	DK	F	ED	V	K	LY	H	SE	A	F	T
DB	121	SEGL	KLV	DK	F	ED	V	K	LY	H	SE	A	F	T
QY	182	VFAL	VNY	I	FF	K	G	W	E	R	P	F	E	V
DB	181	VFAL	VNY	I	FF	K	G	W	E	R	P	F	E	V
QY	242	LMKYL	G	N	A	T	A	I	F	F	L	P	D	E
DB	241	LMKYL	G	N	A	T	A	I	F	F	L	P	D	E
QY	302	SVL	G	L	G	I	T	K	V	P	S	N	G	A
DB	301	SVL	G	L	G	I	T	K	V	P	S	N	G	A

QY 362 PPEVKENKDFVFLMIBQNTKSPFLFMGKVVNPTOK 395
DB 361 PPEVKENKDFVFLMIBQNTKSPFLFMGKVVNPTOK 394
RESULT 13
US-08-002-202-17
Sequence 17, Application US/08002202
Patent No. 5604201
GENERAL INFORMATION:
APPLICANT: Thomas, Gary
APPLICANT: Anderson, Eric D
APPLICANT: Thomas, Laurel S
TITLE OF INVENTION: Methods and Reagents for Inhibiting
TITLE OF INVENTION: Furin Endoprotease
NUMBER OF SEQUENCES: 21
CORRESPONDENCE ADDRESS:
ADDRESSEE: Allegretti and Witcoff, Ltd.
STREET: 10 South Wacker Drive, Suite 3000
CITY: Chicago
STATE: Illinois
COUNTRY: USA
ZIP: 60606
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/002,202
FILING DATE: 08-JAN-1993
CLASSIFICATION: 514
ATTORNEY/AGENT INFORMATION:
NAME: No. 5604201nan, Kevin E
REGISTRATION NUMBER: 35,30003
REFERENCE/DOCKET NUMBER: 92,448
TELECOMMUNICATION INFORMATION:
TELEPHONE: 312-715-1234
TELEFAX: 312-715-5317
TELEX: 910-221-5317
INFORMATION FOR SEQ ID NO: 17:
SEQUENCE CHARACTERISTICS:
LENGTH: 414 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-002-202-17

Query Match 74.3%; Score 1988; DB 1; Length 414;
Best Local Similarity 98.5%; Pred. No. 3e-163;
Matches 388; Conservative 1; Mismatches 1; Indels 4; Gaps 1;

QY	2	EDPGDAAQKTDTS	SHDQDHP	TNFKIT	PNLA	EF	AFSL	YRQL	AHQSN	STN	IFFSP	SVSI	ATA	61
DB	25	EDPGDAAQKTDTS	SHDQDHP	TNFKIT	PNLA	EF	AFSL	YRQL	AHQSN	STN	IFFSP	SVSI	ATA	84
QY	62	FAMLSL	GT	KAD	TH	DE	IL	EG	NF	LN	TE	IP	EAQ	I
DB	85	FAMLSL	GT	KAD	TH	DE	IL	EG	NF	LN	TE	IP	EAQ	I
QY	122	SEGL	KLV	DK	F	ED	V	K	LY	H	SE	A	F	T
DB	141	SEGL	KLV	DK	F	ED	V	K	LY	H	SE	A	F	T
QY	182	VFAL	VNY	I	FF	K	G	W	E	R	P	F	E	V
DB	201	VFAL	VNY	I	FF	K	G	W	E	R	P	F	E	V
QY	242	LMKYL	G	N	A	T	A	I	F	F	L	P	D	E
DB	261	LMKYL	G	N	A	T	A	I	F	F	L	P	D	E

QY 302 SVLGOLGITKVFSGADLSGVTEAPLKLKSAVHKAVLTIDEKGTAAAGAMFLEAIPMSI 361
DB 321 SVLGOLGITKVFSGADLSGVTEAPLKLKSAVHKAVLTIDEKGTAAAGAMFLEAIPMSI 380
QY 362 PPEVFNKPFVFLMIEQNTKSPFLMGKVVNPQTOK 395
DB 381 PPEVFNKPFVFLMIEQNTKSPFLMGKVVNPQTOK 414

RESULT 14
US-08-481-534-17
: Sequence 17, Application US/08481534
: Patent No. 6022855
: GENERAL INFORMATION:
: APPLICANT: Thomas, Gary
: APPLICANT: Anderson, Eric D
: APPLICANT: Thomas, Laurel
: APPLICANT: Hayflick, Joel S
: APPLICANT: Nelson, Jay
: APPLICANT: Stenglen, Stephan G
: TITLE OF INVENTION: Methods and Reagents for Inhibiting Furin
: TITLE OF INVENTION: Endoprotease
: NUMBER OF SEQUENCES: 21
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: McDonnell Boehnen Hulbert & Berghoff
: STREET: 300 South Wacker Drive
: CITY: Chicago
: STATE: IL
: COUNTRY: USA
: ZIP: 60606
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: PatentIn Release #1.0, Version #1.25
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/481,534
: FILING DATE: 14-SEP-1995
: CLASSIFICATION: 530
: ATTORNEY/AGENT INFORMATION:
: NAME: No. 6022855nan, Kevin E
: REGISTRATION NUMBER: 35,303
: REFERENCE/DOCKET NUMBER: 92,448-D
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: 312-913-0001
: TELEFAX: 312-913-0002
: TELEX:
: INFORMATION FOR SEQ ID NO: 17:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 414 amino acids
: TYPE: amino acid
: TOPOLOGY: linear
: MOLECULE TYPE: protein
US-08-481-534-17

Query Match 74.3%; Score 1988; DB 3; Length 414;
Best Local Similarity 98.5%; Pred. No. 3e-163;
Matches 388; Conservative 1; Mismatches 1; Indels 4; Gaps 1;

QY 2 EDPQDAAQKTDTSHHQDHPFTFNKIPNLAFAFSLYRLAQHSNSTNIFSPVSIATA 61
DB 25 EDPQDAAQKTDTSHHQDHPFTFNKIPNLAFAFSLYRLAQHSNSTNIFSPVSIATA 84
QY 62 FAMLISLGTADTHDEILEGNLNLTEIPAQIHGFGFQELLRTLNQPSQLQTTGNGLFL 121
DB 85 FAMLISLGTADTHDEILEGNLNLTEIPAQIHGFGFQELLRTLNQPSQLQTTGNGLFL 140
QY 122 SEGKLVDKFLVDKLYHSEAFVNFQDTEEAQKQINDYVEKGTQKIVDLVKELDRDT 181
DB 141 SEGKLVDKFLVDKLYHSEAFVNFQDTEEAQKQINDYVEKGTQKIVDLVKELDRDT 200
QY 182 VFALVNIYFFKGWERPFVKDTEBEDFHVQVTVKVPMMKRLGMFNHCHCKLSSWVL 241

DB 201 VFALVNIYFFKGWERPFVKDTEBEDFHVQVTVKVPMMKRLGMFNHCHCKLSSWVL 260
QY 242 LMKYLGNATAIFFLPDDEGKLOHLENELTHDITKFLNEDRRSASLHLPKLSITGTGYDLK 301
DB 261 LMKYLGNATAIFFLPDDEGKLOHLENELTHDITKFLNEDRRSASLHLPKLSITGTGYDLK 320
QY 302 SVLGOLGITKVFSGADLSGVTEAPLKLKSAVHKAVLTIDEKGTAAAGAMFLEAIPMSI 361
DB 321 SVLGOLGITKVFSGADLSGVTEAPLKLKSAVHKAVLTIDEKGTAAAGAMFLEAIPMSI 380
QY 362 PPEVFNKPFVFLMIEQNTKSPFLMGKVVNPQTOK 395
DB 381 PPEVFNKPFVFLMIEQNTKSPFLMGKVVNPQTOK 414

RESULT 15
US-08-002-202-13
: Sequence 13, Application US/080022202
: Patent No. 5604201
: GENERAL INFORMATION:
: APPLICANT: Thomas, Gary
: APPLICANT: Anderson, Eric D
: APPLICANT: Thomas, Laurel
: APPLICANT: Hayflick, Joel S
: TITLE OF INVENTION: Methods and Reagents for Inhibiting
: TITLE OF INVENTION: Furin Endoprotease
: NUMBER OF SEQUENCES: 21
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Allegretti and Witcoff, Ltd.
: STREET: 10 South Wacker Drive, Suite 3000
: CITY: Chicago
: STATE: Illinois
: COUNTRY: USA
: ZIP: 60606
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: PatentIn Release #1.0, Version #1.25
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/002,202
: FILING DATE: 08-JAN-1993
: CLASSIFICATION: 514
: ATTORNEY/AGENT INFORMATION:
: NAME: No. 5604201nan, Kevin E
: REGISTRATION NUMBER: 35,30003
: REFERENCE/DOCKET NUMBER: 92,448
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: 312-715-1000
: TELEFAX: 312-715-1234
: TELEX: 910-221-5317
: INFORMATION FOR SEQ ID NO: 13:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 414 amino acids
: TYPE: amino acid
: TOPOLOGY: linear
: MOLECULE TYPE: protein
US-08-002-202-13

Query Match 74.1%; Score 1982; DB 1; Length 414;
Best Local Similarity 98.2%; Pred. No. 9.8e-163;
Matches 387; Conservative 1; Mismatches 2; Indels 4; Gaps 1;

QY 2 EDPQDAAQKTDTSHHQDHPFTFNKIPNLAFAFSLYRLAQHSNSTNIFSPVSIATA 61
DB 25 EDPQDAAQKTDTSHHQDHPFTFNKIPNLAFAFSLYRLAQHSNSTNIFSPVSIATA 84
QY 62 FAMLISLGTADTHDEILEGNLNLTEIPAQIHGFGFQELLRTLNQPSQLQTTGNGLFL 121
DB 85 FAMLISLGTADTHDEILEGNLNLTEIPAQIHGFGFQELLRTLNQPSQLQTTGNGLFL 140
QY 122 SEGKLVDKFLVDKLYHSEAFVNFQDTEEAQKQINDYVEKGTQKIVDLVKELDRDT 181

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Db 141 SEGLKLVDFLEDVKKLIHSEFTVNFQGTTEAKKQINDYVEKGTQGIKIVDLVRELDRT 200
QY 182 VFALVNYIFFKQKWERPEVKDTEEDFHVQVTVKVPMMKRLGMFNIQHCKKLSWVL 241
Db 201 VFALVNYIFFKQKWERPEVKDTEEDFHVQVTVKVPMMKRLGMFNIQHCKKLSWVL 260
QY 242 LMKYLGNATAIFFLPDEGKLQHLENELTHDIITKPLENEDRRSASLHLPKLSITGTVDLK 301
Db 261 LMKYLGNATAMFFLPDEGKLQHLENELTHDIITKPLENEDRRSASLHLPKLSITGTVDLK 320
QY 302 SYLGOLGITKVFNSGADLSGVTEEAAPLKLKSAVHKAVLTIDEKGTAAAGAMFLEAIPMSI 361
Db 321 SYLGOLGITKVFNSGADLSGVTEEAAPLKLKSAVHKAVLTIDEKGTAAAGAMFLEAIPRSI 380
QY 362 PPEVKFNKPPFVFLMIEQNTKSPFMGVVNPTQK 395
Db 381 PPEVKFNKPPFVFLMIEQNTKSPFMGVVNPTQK 414

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Search completed: November 30, 2002, 12:38:14
Job time : 13.5 secs